

## NFPA DESIGNATION 704

HAZARD RATING	- HEALTH	0
4=Extreme		
3=High	- FIRE	1
2=Moderate		
1=Slight	- REACTIVITY	0
0=Insignificant		
	- SPECIFIC HAZARD	NONE



## MATERIAL SAFETY DATA SHEET

## SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY  
 ADDRESS: 7910 Manchester Ave.  
 St. Louis, Mo. 63143  
 United States of America

CONTACT: Terry Heller  
 EMERGENCY PHONE NO: 314-781-2105  
 APPROVED BY: Terry Heller  
 TITLE: Manager, Materials R/D  
 DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: Sunnen KG3X Honing Oil

CHEMICAL FAMILY OR PRODUCT TYPE: Non-Petroleum fatty oil with preservative.

CLASSIFICATION: NOT APPLICABLE

D.O.T. SHIPPING CLASS: NOT APPLICABLE

## SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	Wt. %	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
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WHEN EVALUATED IN ACCORDANCE WITH THE PROVISIONS OF THE FEDERAL HAZARD COMMUNICATION RULE 29 CFR 1910.1200 KG3X WAS JUDGED TO BE NON-HAZARDOUS.

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

## SECTION 3 PHYSICAL &amp; CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)----- .905  
 BOILING POINT----- >460 F (238 C)  
 MELTING POINT----- 35 F (2 C) (Congeals)  
 VAPOR PRESSURE (mm Hg)----- <1 @ 68 F (20 C)  
 VAPOR DENSITY (AIR=1)----- >20 Est.  
 EVAPORATION RATE (CCI4=1)----- Not volatile  
 SOLUBILITY IN WATER----- < 1%  
 REACTIVITY IN WATER----- No hazardous reactions.  
 APPEARANCE AND ODOR----- Amber color liquid with fatty odor.

## SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: None. Read and follow container warnings. Refer to Section 7 & 8

## SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: Material is stable.  
 POLYMERIZATION: Material will not polymerize.  
 INCOMPATIBILITY (materials to avoid): Material will slowly corrode and stain metals.  
 DECOMPOSITION PRODUCTS: Combustion of material will produce oxides of Carbon. Material is organic and will slowly oxidize and decay forming compounds containing Carbonyl group, Hydroxyl group, Carboxyl group, Oxirane, glycerol, hydroperoxides, aldehydes, ketones and acids.

CONDITIONS TO BE AVOIDED: Avoid contact with strong oxidizers such as hot fuming Nitric or Sulfuric acid as they cause the material to ignite and burn. If the material is in a closed container (such as a drum), the container can explode.

## SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

**ACUTE:** SKIN: Prolonged or repeated contact can cause skin irritation or oil acne; folliculitis and comedones due to mechanical blockage of the follicular orifices. Predisposing factors: usually individuals with sensitive skin or large amounts of body hair. EYE: Overheating (>200 F) used material can release Acrolein (an eye irritant) causing redness and burning of the eyes. INHAL: Symptoms of overexposure include coughing, sore throat, headache, chest pain and difficult breathing. Predisposing factors: Individuals with pre-existing respiratory impairments (such as emphysema) can display increased sensitivity to oil mist or vapors. INGEST: Loose bowel movements. **CHRONIC:** SKIN: Material is potentially a skin sensitizer. Individuals can experience skin irritation after prolonged exposure. Material is not sterile and may infect open cuts or sores. EYE: NAIF. INHAL: NAIF. INGEST: NAIF. OTHER: Material will support the growth of bacteria, mold and fungus.

## EMERGENCY FIRST AID

**INHALATION:** Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, begin mouth to mouth resuscitation. **EYE CONTACT:** Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation. **SKIN CONTACT:** Wash contact areas with mild non-abrasive soap and water. **INGESTION:** Do not induce vomiting. Get medical assistance.

## SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

**NORMAL STORAGE AND HANDLING:** Store away from heat or flame as the material will expand if overheated and possibly rupture the container spilling the contents. The spilled material will create a slip hazard and will burn if ignited. If stored outdoors, store so as to shed water to prevent rusting of drums and spilling contents. Plastic containers are brittle if frozen and may split and leak if handled roughly. Spilled material creates a fall/slip hazard. Since emptied containers retain material residue, follow label warnings even after container is emptied. Material should be heated to 108 F and mixed prior to transfer of contents if product separates as a result of cold storage (T<50 F). Vent container if heating. Use drum heater for drums. Pails may be immersed in hot water to warm contents. Refer to MSDS Section 8.

**NORMAL USE:** Material is for use in Honing Machines only. Material may be mixed with other Sunnen Honing Oils only. Clean material from parts using alkaline cleaner. Pollution by any amount of water or alkaline material will lead to the formation of soaps that clog the Honing Machine oil filter.

**STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS:** Contain and absorb on fire-retardant treated sawdust, diatomaceous earth or other suitable absorbent. Notify Coast Guard if spill could reach any waterways (1-800-424-8802) and also local/state authorities. Spilled material is greasy and produces a slip/fall hazard.

**WASTE DISPOSAL METHOD:** Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

## SECTION 8 PERSONAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION:** If use conditions give rise to mist levels >5 mg/cu m or if operator experiences any respiratory irritation use respirator rated for use with mineral or vegetable oil.

**VENTILATION** LOCAL: Normal ventilation.

**MECHANICAL:** Required if use conditions give rise to mist levels greater than 5 mg/cu m or if operator experiences any respiratory or eye irritation.

**PROTECTIVE GLOVES:** If preferred or if sensitivity to material has been demonstrated use gloves rated for animal or vegetable oil.

**EYE PROTECTION:** Glasses or goggles to prevent inadvertent splashing of material into eyes. Always wear safety glasses while honing.

**OTHER PROTECTION:** Apron, if desired. Do not wear oil-soaked clothing as it may cause skin irritation or oil acne.

MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT WITH THIS MATERIAL:  
Same as for petroleum lub oil. Remove traces of material if soldering, welding, brazing, cutting  
or other process involving ignition sources by cleaning with caustic cleaners.

## SECTION 9 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT= 370 F (188 C) Method used: ASTM D-92

FLAMMABLE LIMITS

IN AIR % BY VOLUME LEL (lower)= Unknown UEL (upper)= Unknown Method: ASTM E-681

AUTO-IGNITION TEMPERATURE= Unknown

EXTINGUISHING MEDIA: Foam, Carbon Dioxide, Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES: Treat as an oil fire. Do not use water as material will float and spread on water.

Wear self-contained breathing gear in involved area.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustion will produce oxides of Carbon. Sealed containers may leak, burst or explode,  
releasing contents and spreading fire.

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